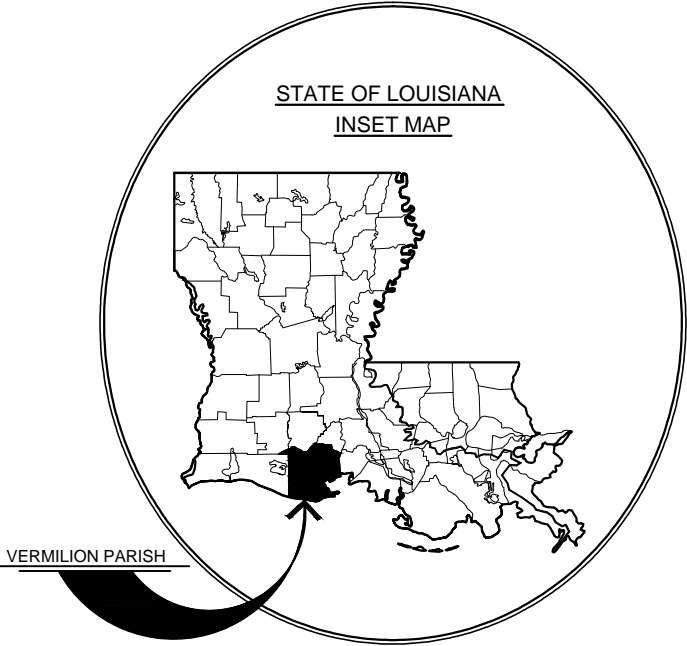
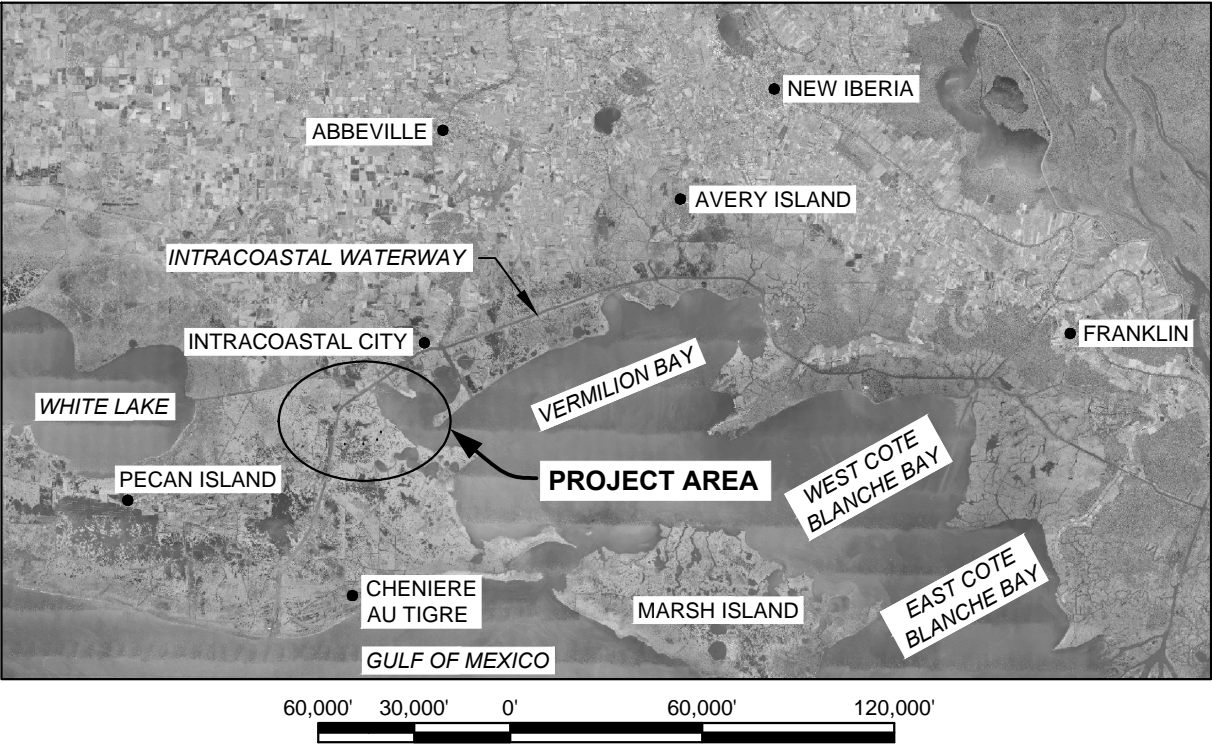
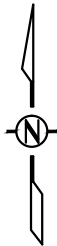


STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

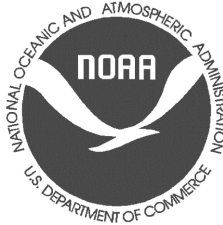
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COLE'S BAYOU  
MARSH RESTORATION  
TV-63  
VERMILION PARISH



**PRELIMINARY**  
DOCUMENTS ARE NOT TO BE USED FOR  
CONSTRUCTION, BIDDING, RECORDATION,  
CONVEYANCE, SALES, OR AS THE BASIS  
FOR THE ISSUANCE OF A PERMIT.



_____ CHIEF, ENGINEERING DIVISION
_____ ENGINEER MANAGER
_____ ENGINEER SUPERVISOR
_____ PROJECT ENGINEER

LICENSURE CLASSIFICATION REQUIREMENTS

MAJOR CLASSIFICATION: HEAVY CONSTRUCTION  
SUBCLASSIFICATION: DREDGING

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	COLE'S BAYOU MARSH RESTORATION		TITLE SHEET	
					STATE PROJECT NUMBER: TV-63			
					FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015	
REV.	DATE	DESCRIPTION	BY		DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.	SHEET 1 OF 14

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE FOLLOWING:

SECONDARY SURVEY MONUMENT	ELEVATION	NORTHING	EASTING
TV12-SM-01	2.69'	456,955.08	3,005,295.33
CRMSTV-SM-06	1.85'	424,171.40	2,999,354.26

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED FROM APRIL 2013 THROUGH JUNE 2013 AND OCTOBER 2014 THROUGH NOVEMBER 2014 BY THE HYDRO-TERRA GROUP FOR THE CPRA.
3. DATA FROM STATION CRMS2041 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12A. MHW = +0.68' AND MLW = +0.48' WITHIN PROJECT AREA AND MHW = 1.68' AND MLW = 1.15' IN LITTLE VERMILION BAY.
4. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE AND SHALL NOTIFY LANDOWNERS ACCORDING TO THE LAND RIGHTS MEMORANDUM SHOWN IN THE CONSTRUCTION BID DOCUMENTS. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. PIPELINES LOCATED WITHIN 150' OF THE WORK SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.
- ACADIAN PIPELINE COMPANY  
CONTACT: MARK BARTON (BRAMMER ENGINEERING)  
PHONE: (337) 232-2215 (EXT. 3115)
7. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
8. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
9. THE MARSH CREATION AREAS, BORROW AREAS, CONTAINMENT DIKES, AND WATER CONTROL STRUCTURES MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
10. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE ALIGNMENT, BORROW AREAS, WATER CONTROL STRUCTURES, ACCESS CHANNELS, AND MARSH CREATION AREAS PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREAS.
12. A GEOTECHNICAL INVESTIGATION WAS PERFORMED BY ARDAMAN & ASSOCIATES ON FEBRUARY 2013 TO APRIL 2013. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

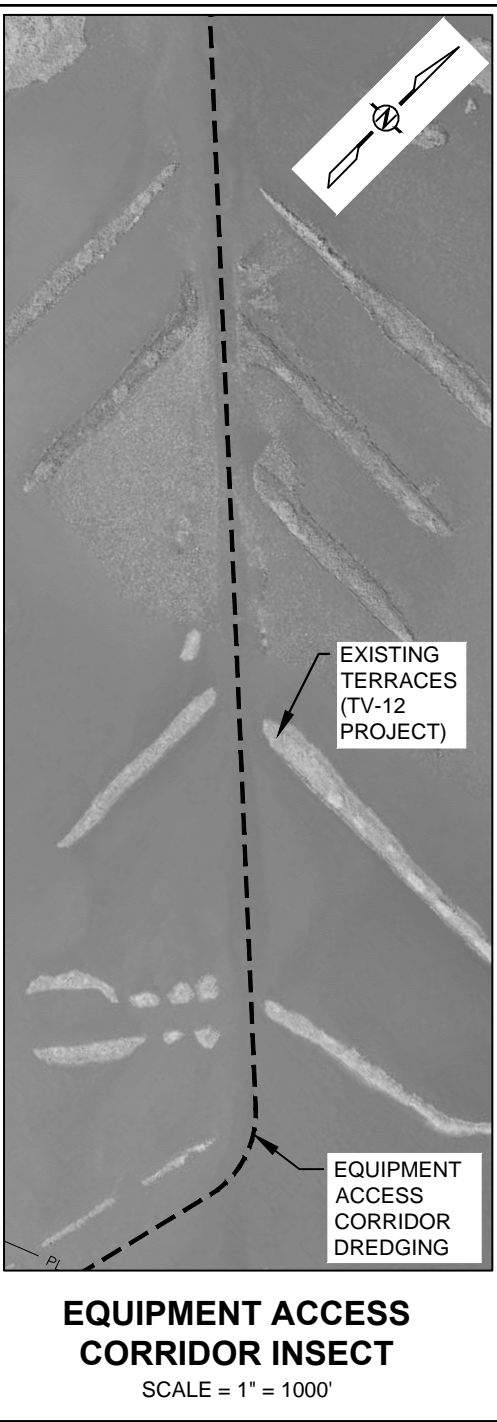
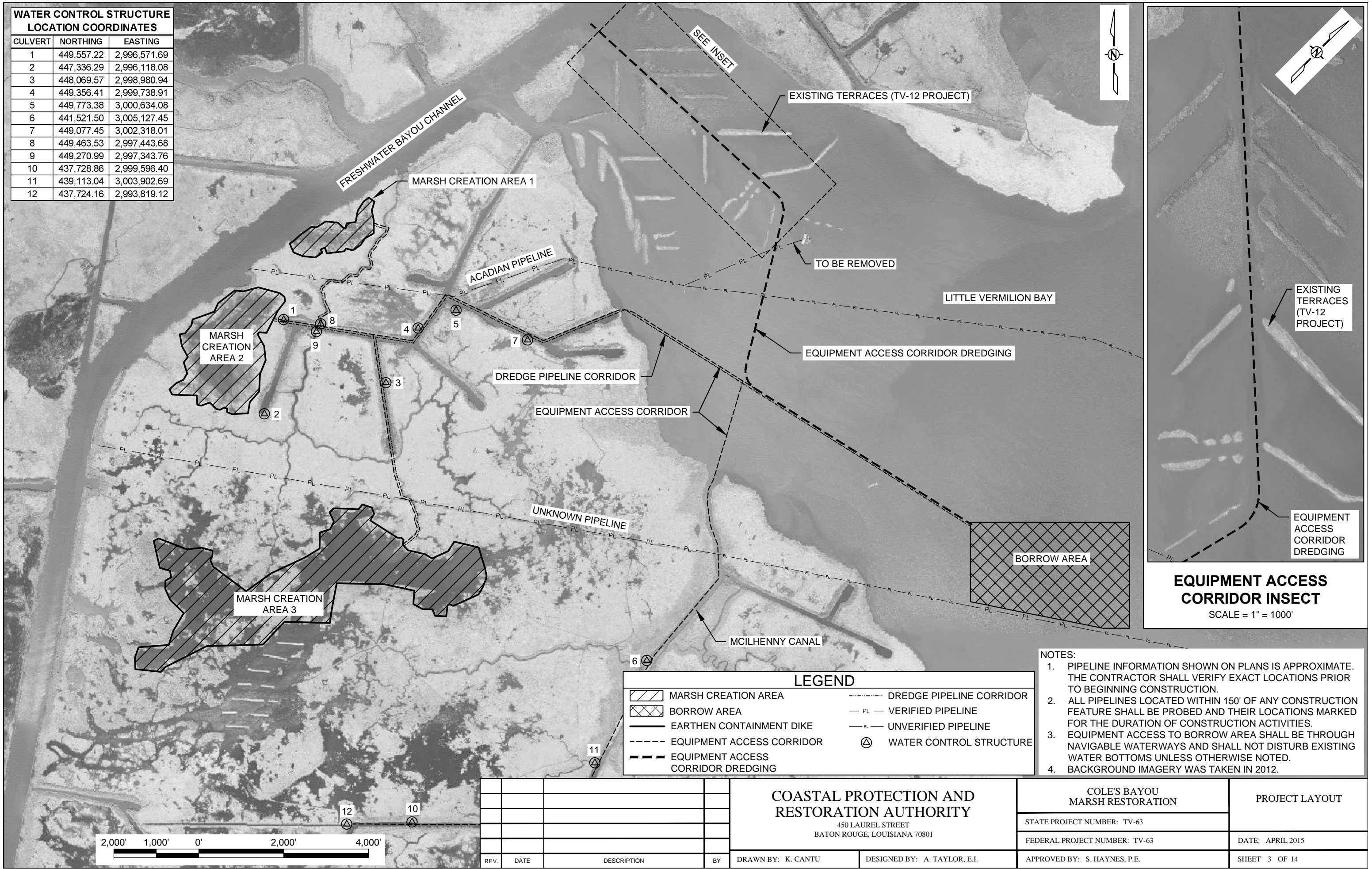
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY <sup>1</sup>
100	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
210	SURVEYS	LUMP SUM	1
220	GRADE STAKES	EACH	100
250	SETTLEMENT PLATES	EACH	8
300	EARTHEN CONTAINMENT DIKES	LINEAR FOOT	42,142
310	EARTH WORK	LUMP SUM	1
330	ACCESS CHANNEL	LUMP SUM	1
400	HYDRAULIC DREDGING AND MARSH FILL	CUBIC YARD	2,665,360
510	48" PLASTIC PIPE	LINEAR FOOT	1,060
520	DUCKBILL CHECK VALVE	EACH	16
530	ANTI-SEEP COLLAR	EACH	16

1. THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM APRIL 2013 THROUGH JUNE 2013 AND OCTOBER 2014 THROUGH NOVEMBER 2014. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
2. QUANTITY IS BASED ON THE BORROW AREA CUT VOLUMES. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS.

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		COLE'S BAYOU MARSH RESTORATION	GENERAL NOTES
						STATE PROJECT NUMBER: TV-63	
						FEDERAL PROJECT NUMBER: TV-63	DATE: APRIL 2015
						APPROVED BY: S. HAYNES, P.E.	SHEET 2 OF 14
REV.	DATE	DESCRIPTION	BY	DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.		



WATER CONTROL STRUCTURE LOCATION COORDINATES		
CULVERT	NORTHING	EASTING
1	449,557.22	2,996,571.69
2	447,336.29	2,996,118.08
3	448,069.57	2,998,980.94
4	449,356.41	2,999,738.91
5	449,773.38	3,000,634.08
6	441,521.50	3,005,127.45
7	449,077.45	3,002,318.01
8	449,463.53	2,997,443.68
9	449,270.99	2,997,343.76
10	437,728.86	2,999,596.40
11	439,113.04	3,003,902.69
12	437,724.16	2,993,819.12



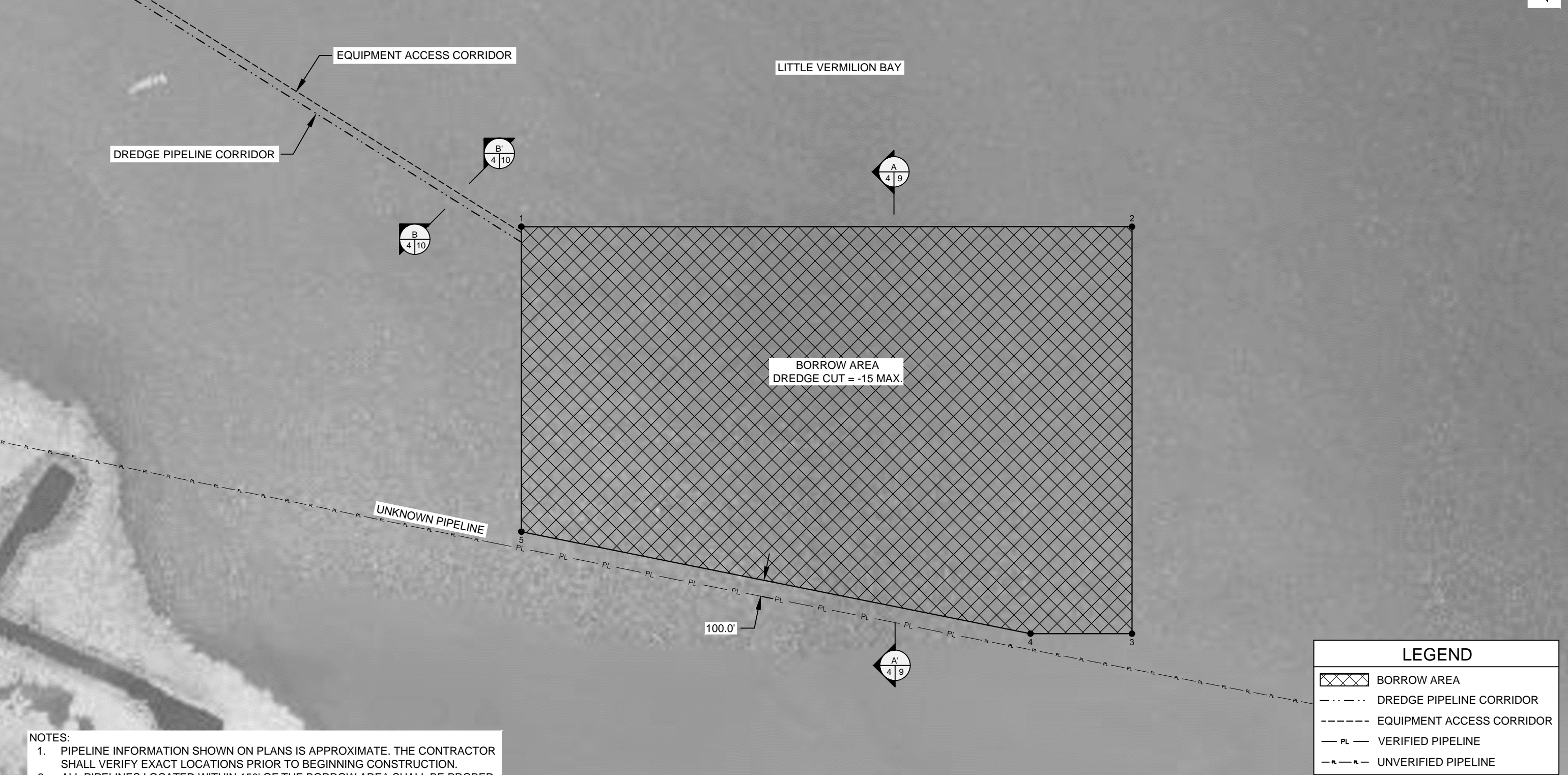
LEGEND			
	MARSH CREATION AREA		DREDGE PIPELINE CORRIDOR
	BORROW AREA		PL VERIFIED PIPELINE
	EARTHEN CONTAINMENT DIKE		UNVERIFIED PIPELINE
	EQUIPMENT ACCESS CORRIDOR		WATER CONTROL STRUCTURE
	EQUIPMENT ACCESS CORRIDOR DREDGING		

- NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  3. EQUIPMENT ACCESS TO BORROW AREA SHALL BE THROUGH NAVIGABLE WATERWAYS AND SHALL NOT DISTURB EXISTING WATER BOTTOMS UNLESS OTHERWISE NOTED.
  4. BACKGROUND IMAGERY WAS TAKEN IN 2012.

				<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>450 LAUREL STREET</div> <div>BATON ROUGE, LOUISIANA 70801</div>	COLE'S BAYOU MARSH RESTORATION		PROJECT LAYOUT	
					STATE PROJECT NUMBER: TV-63			
					FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015	
REV.	DATE	DESCRIPTION	BY		DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.	SHEET 3 OF 14



BORROW AREA		
1	444,785.64	3,012,750.85
2	444,785.63	3,016,500.85
3	442,286.50	3,016,500.85
4	442,286.50	3,015,877.18
5	442,912.75	3,012,750.85



- NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE BORROW AREA SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES OF THE BORROW AREA.
  3. A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO MOBILIZATION OF THE DREDGE.

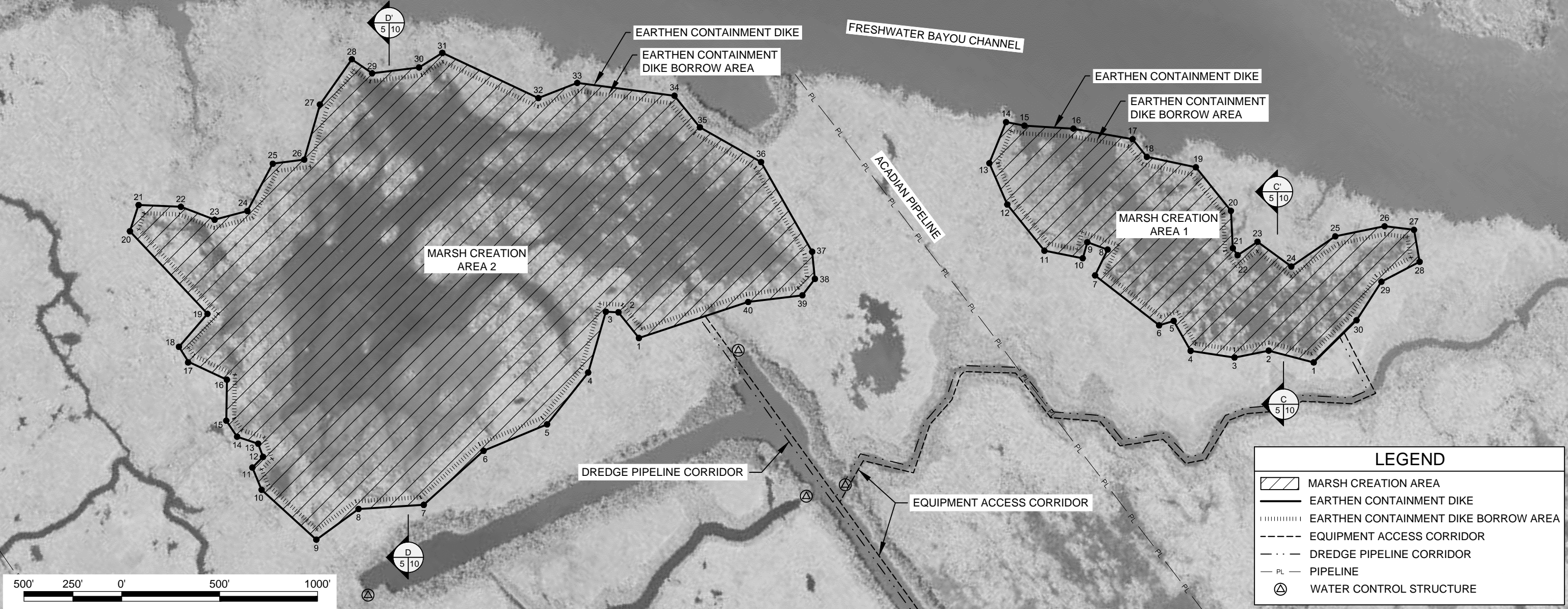
LEGEND	
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	EQUIPMENT ACCESS CORRIDOR
	VERIFIED PIPELINE
	UNVERIFIED PIPELINE

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	COLE'S BAYOU MARSH RESTORATION		BORROW AREA PLAN VIEW	
					STATE PROJECT NUMBER: TV-63			
					FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015	
REV.	DATE	DESCRIPTION	BY		DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.	SHEET 4 OF 14



MARSH CREATION AREA 1 EARTHEN CONTAINMENT DIKE CENTERLINE					
	NORTHING	EASTING		NORTHING	EASTING
1	451,591.72	2,998,692.76	16	451,567.91	2,996,981.13
2	451,471.51	2,998,487.63	17	451,743.69	2,997,232.14
3	451,323.71	2,998,388.97	18	451,731.21	2,997,347.97
4	451,189.17	2,998,206.35	19	451,870.69	2,997,562.68
5	451,235.72	2,998,037.28	20	451,839.82	2,997,846.56
6	451,167.72	2,998,000.40	21	451,712.07	2,997,988.24
7	451,116.18	2,997,589.16	22	451,704.12	2,998,030.92
8	451,254.78	2,997,541.05	23	451,824.47	2,998,054.28
9	451,208.36	2,997,441.08	24	451,857.23	2,998,265.58
10	451,133.73	2,997,482.52	25	452,124.64	2,998,315.40
11	451,022.62	2,997,316.93	26	452,339.45	2,998,457.09
12	451,055.39	2,997,015.94	27	452,432.66	2,998,576.30
13	451,139.59	2,996,802.24	28	452,337.62	2,998,711.94
14	451,348.42	2,996,714.17	29	452,127.79	2,998,645.95
15	451,401.84	2,996,793.05	30	451,898.82	2,998,695.18

MARSH CREATION AREA 2 EARTHEN CONTAINMENT DIKE CENTERLINE					
	NORTHING	EASTING		NORTHING	EASTING
1	449,242.98	2,996,167.40	15	447,454.29	2,994,975.61
2	449,261.50	2,996,000.90	16	447,604.37	2,994,830.31
3	449,218.34	2,995,953.16	17	447,526.63	2,994,627.66
4	448,935.16	2,996,109.06	18	447,549.86	2,994,538.03
5	448,599.40	2,996,147.61	19	447,771.96	2,994,522.38
6	448,274.82	2,996,013.81	20	447,790.06	2,993,943.81
7	447,863.52	2,995,992.80	21	447,915.92	2,993,880.33
8	447,613.15	2,995,772.07	22	448,062.41	2,994,039.58
9	447,349.87	2,995,730.67	23	448,137.74	2,994,207.91
10	447,332.20	2,995,352.89	24	448,287.58	2,994,295.18
11	447,379.20	2,995,239.24	25	448,549.58	2,994,215.86
12	447,456.29	2,995,238.91	26	448,678.07	2,994,314.73
13	447,486.33	2,995,173.89	27	448,933.69	2,994,172.55
14	447,435.43	2,995,072.79	28	449,212.27	2,994,124.48



- NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  3. A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO MOBILIZATION OF THE DREDGE.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.

COLE'S BAYOU MARSH RESTORATION		MARSH CREATION AREAS 1 & 2 PLAN VIEW
STATE PROJECT NUMBER: TV-63		
FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015
APPROVED BY: S. HAYNES, P.E.		SHEET 5 OF 14



This aerial map illustrates the Marsh Creation Area 3, a large, irregularly shaped region outlined by a solid black line. The area is filled with diagonal hatching. The map includes several key features and infrastructure:

- Marsh Creation Area 3:** The central, hatched region, bounded by a solid black line.
- Earthen Containment Dike:** A solid black line forming the outer boundary of the marsh area.
- Earthen Containment Dike Borrow Area:** A region within the marsh area, indicated by a dashed line.
- Equipment Access Corridor:** A dashed line extending from the top right towards the center of the marsh area.
- Dredge Pipeline Corridor:** A dashed line extending from the top right towards the center of the marsh area.
- Pipeline:** A solid line labeled "PL" running horizontally across the top right.
- Water Control Structure:** A circular structure with a crosshair, located near the bottom center of the marsh area.
- Legend:** A box in the bottom right corner defining the symbols used on the map.
- Scale:** A scale bar at the bottom right indicates distances in feet: 600', 300', 0', 600', and 1,200'.
- North Arrow:** A north arrow is located near the center of the map, pointing towards the top.
- Point Markers:** Numerous numbered points (1 through 67) are distributed along the boundary of the marsh area, likely indicating specific locations or measurements.

**LEGEND**

- MARSH CREATION AREA
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EQUIPMENT ACCESS CORRIDOR
- DREDGE PIPELINE CORRIDOR
- PIPELINE
- WATER CONTROL STRUCTURE

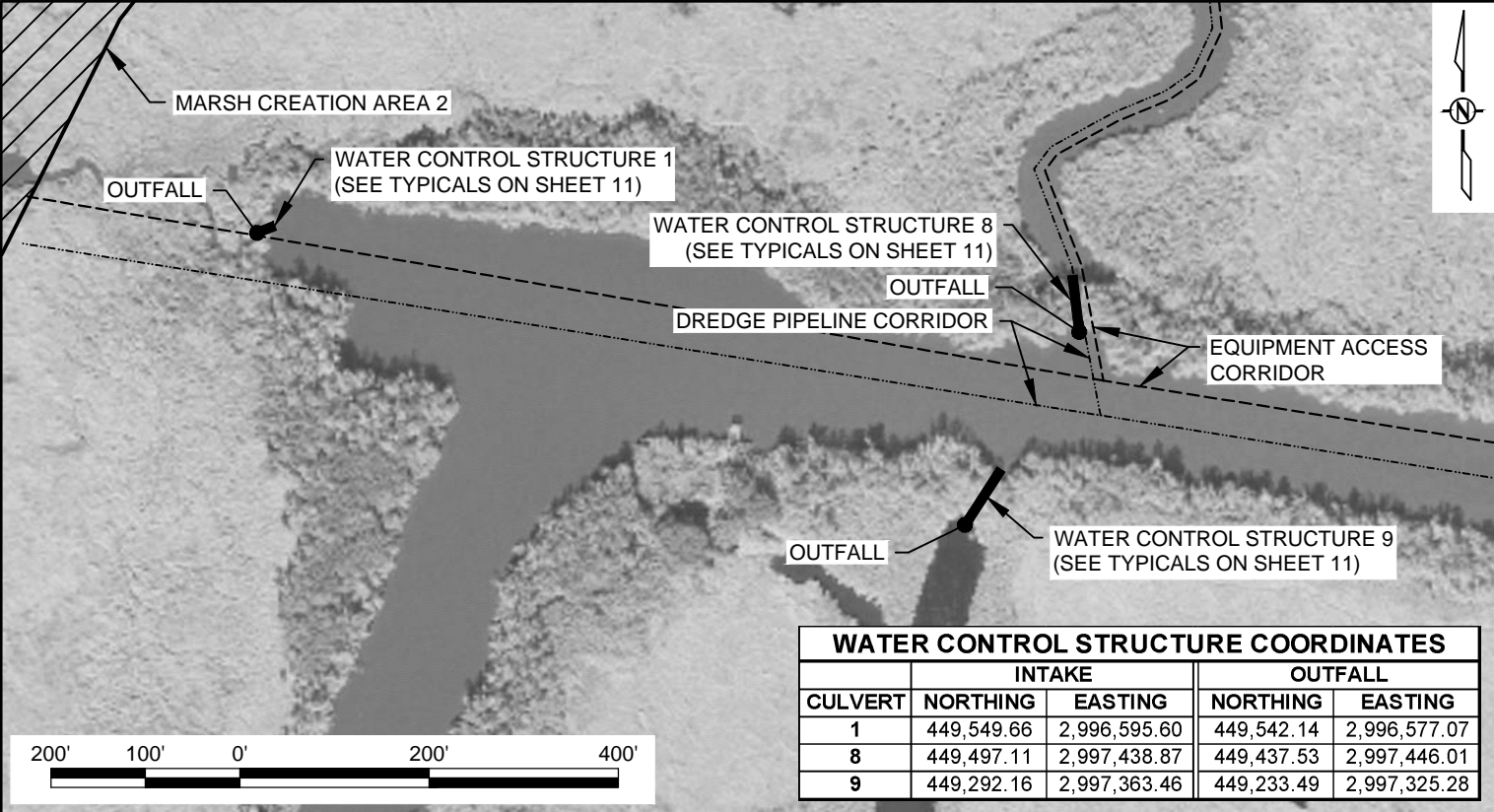
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|      |      |             |    |
| REV. | DATE | DESCRIPTION | BY |

DRAWN BY: K. CANTU      DESIGNED BY: A. TAYLOR, E.I.

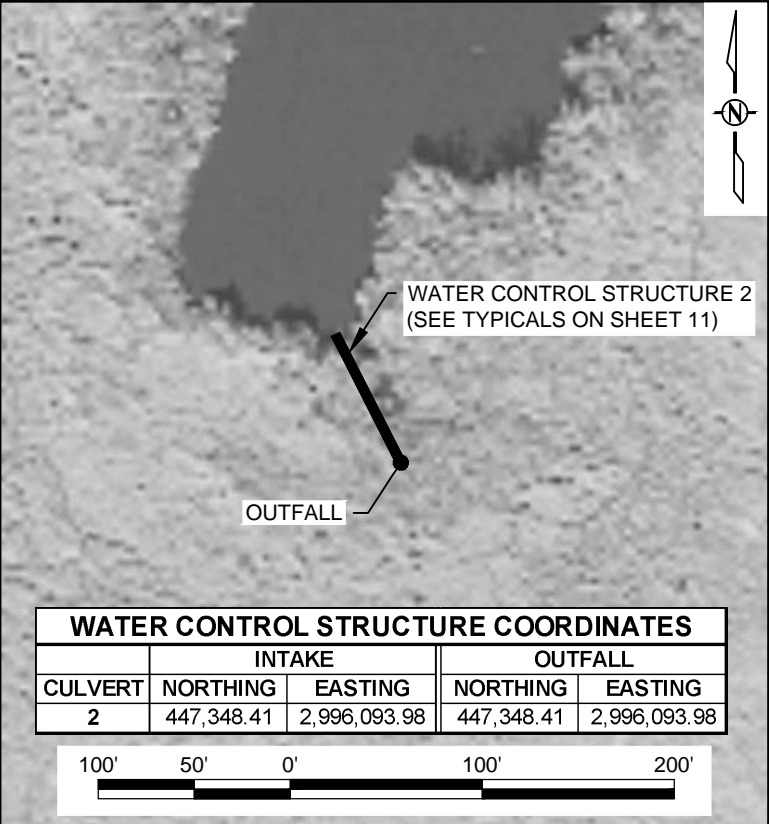
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SHEET 6 OF 14

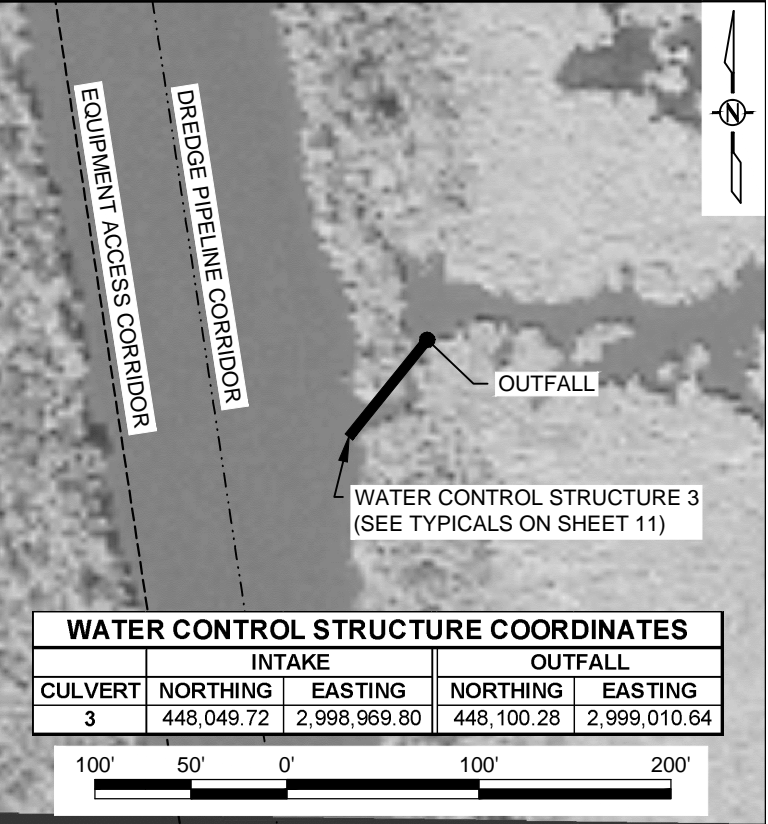




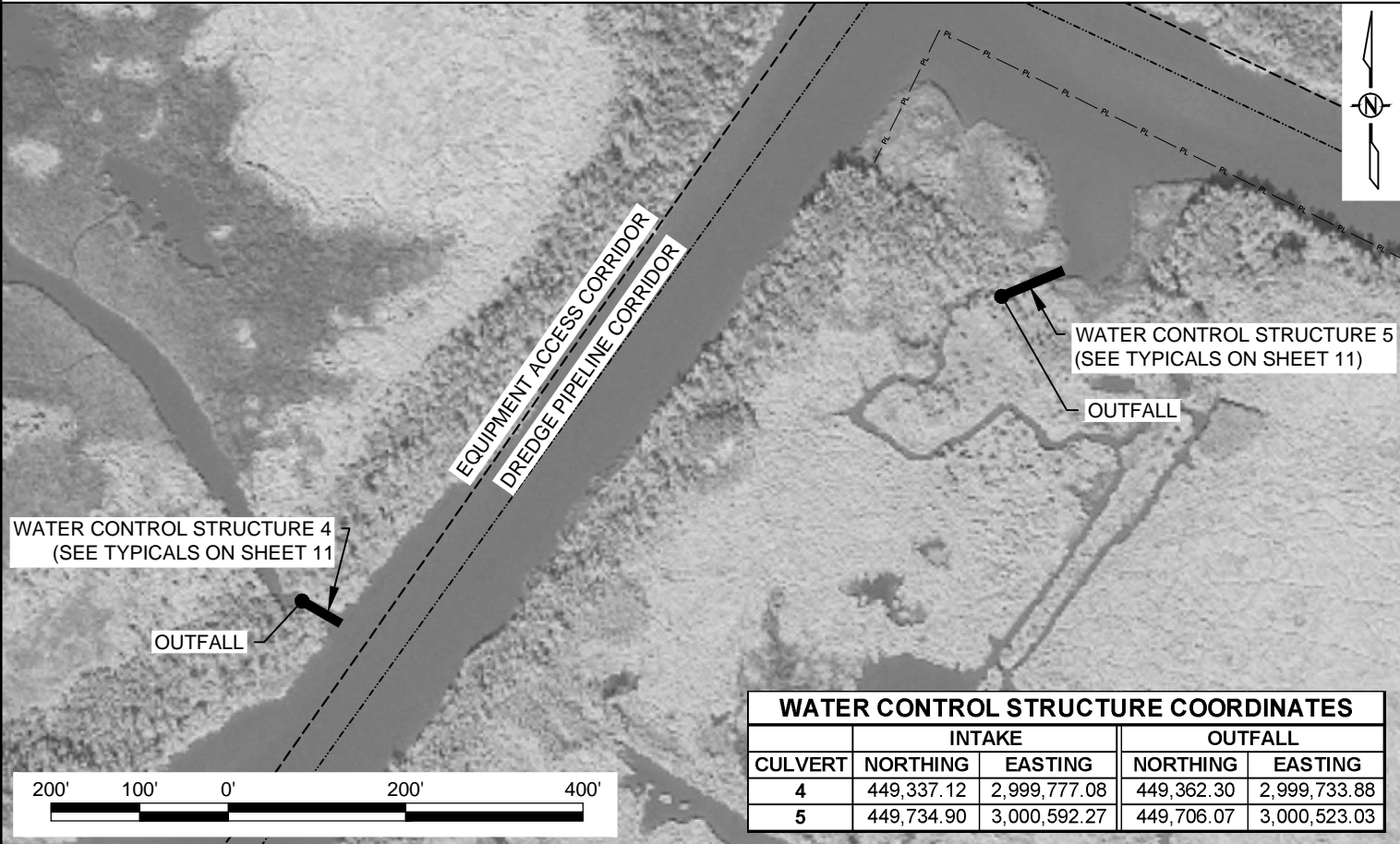
WATER CONTROL STRUCTURE COORDINATES				
CULVERT	INTAKE		OUTFALL	
	NORTHING	EASTING	NORTHING	EASTING
1	449,549.66	2,996,595.60	449,542.14	2,996,577.07
8	449,497.11	2,997,438.87	449,437.53	2,997,446.01
9	449,292.16	2,997,363.46	449,233.49	2,997,325.28



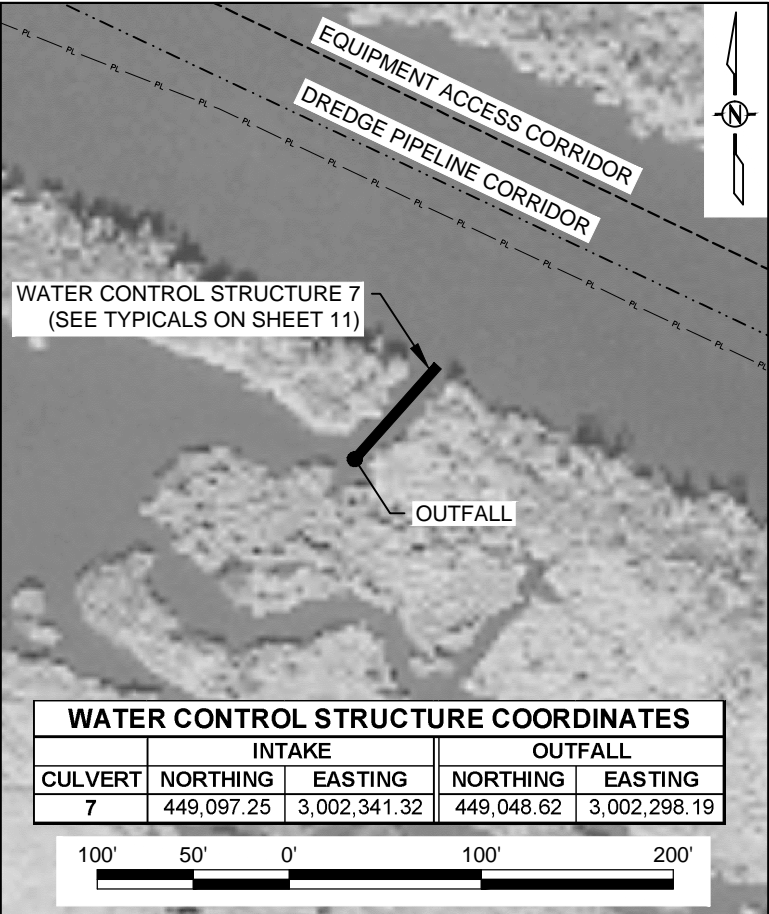
WATER CONTROL STRUCTURE COORDINATES				
CULVERT	INTAKE		OUTFALL	
	NORTHING	EASTING	NORTHING	EASTING
2	447,348.41	2,996,093.98	447,348.41	2,996,093.98



WATER CONTROL STRUCTURE COORDINATES				
CULVERT	INTAKE		OUTFALL	
	NORTHING	EASTING	NORTHING	EASTING
3	448,049.72	2,998,969.80	448,100.28	2,999,010.64



WATER CONTROL STRUCTURE COORDINATES				
CULVERT	INTAKE		OUTFALL	
	NORTHING	EASTING	NORTHING	EASTING
4	449,337.12	2,999,777.08	449,362.30	2,999,733.88
5	449,734.90	3,000,592.27	449,706.07	3,000,523.03



WATER CONTROL STRUCTURE COORDINATES				
CULVERT	INTAKE		OUTFALL	
	NORTHING	EASTING	NORTHING	EASTING
7	449,097.25	3,002,341.32	449,048.62	3,002,298.19

WATER CONTROL STRUCTURE			
ID	LENGTH (FT.)	ID	LENGTH (FT.)
1	20	5	75
2	75	7	65
3	65	8	60
4	50	9	70

- NOTES:
- PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  - BACKGROUND IMAGERY WAS TAKEN IN 2012.

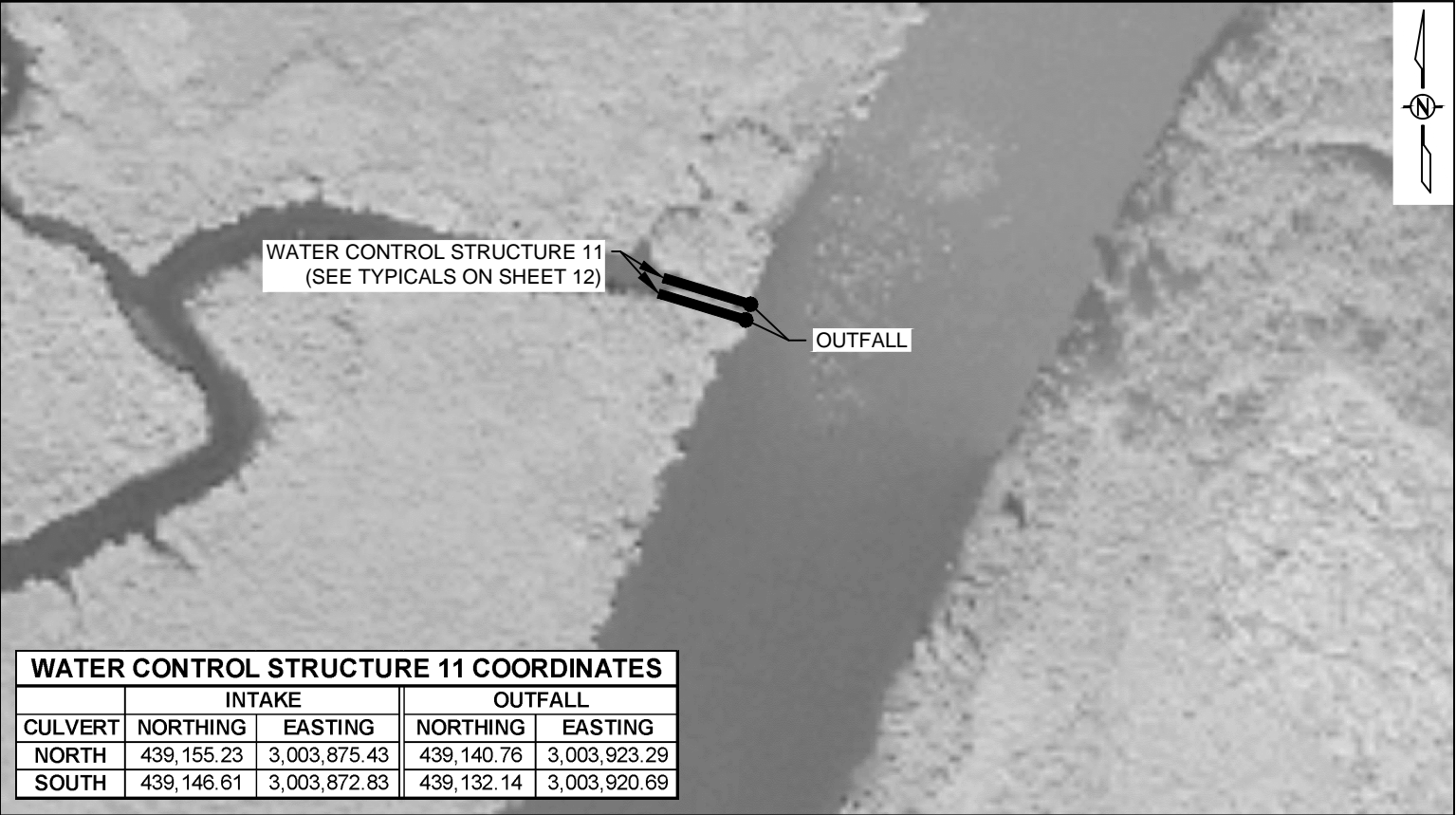
LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	WATER CONTROL STRUCTURE
	EQUIPMENT ACCESS CORRIDOR
	DREDGE PIPELINE CORRIDOR
	PL PIPELINE

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	COLE'S BAYOU MARSH RESTORATION		WATER CONTROL STRUCTURE PLAN VIEWS
						STATE PROJECT NUMBER: TV-63	
						FEDERAL PROJECT NUMBER: TV-63	DATE: APRIL 2015
	REV.	DATE	DESCRIPTION		BY	DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.

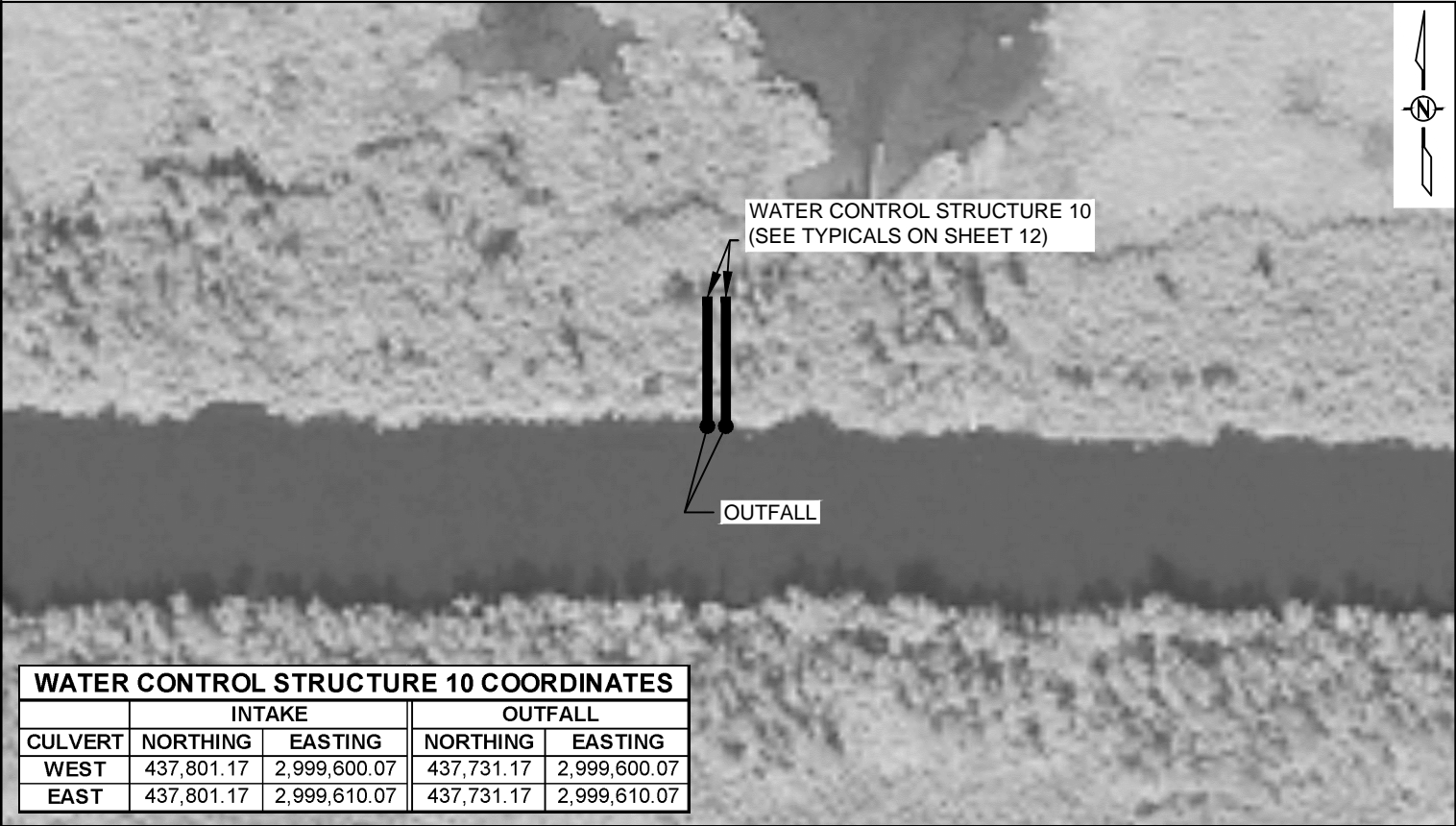




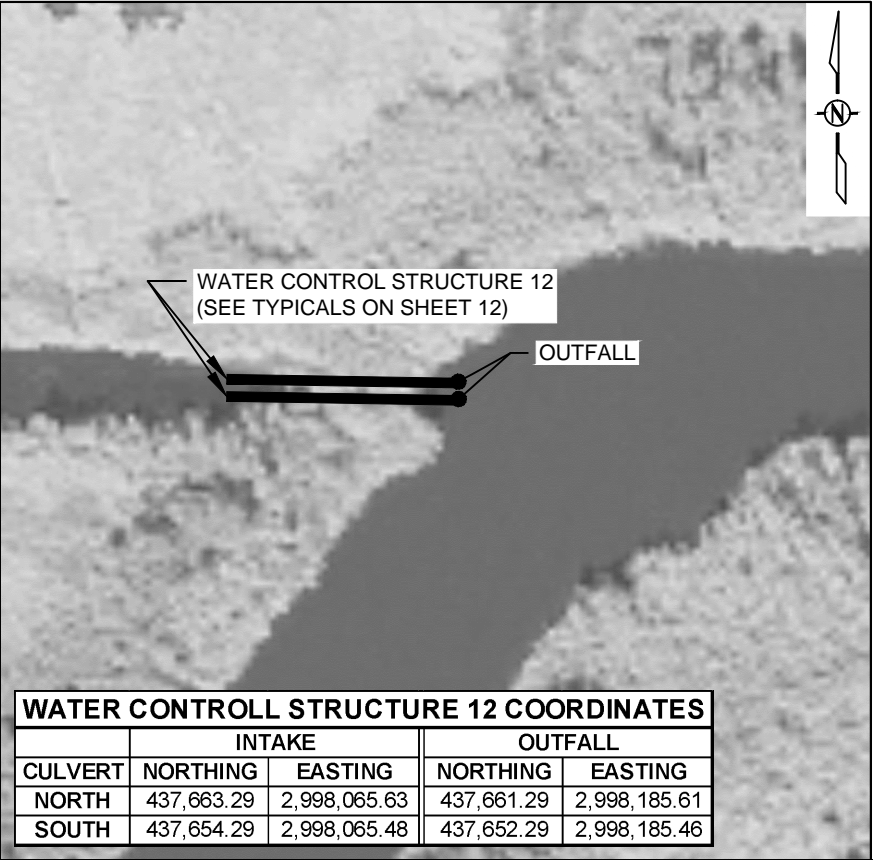
WATER CONTROL STRUCTURE 6 COORDINATES				
	INTAKE		OUTFALL	
CULVERT	NORTHING	EASTING	NORTHING	EASTING
NORTH	441,530.17	3,005,098.14	441,509.56	3,005,143.70
SOUTH	441,521.97	3,005,094.43	441,501.36	3,005,139.99



WATER CONTROL STRUCTURE 11 COORDINATES				
	INTAKE		OUTFALL	
CULVERT	NORTHING	EASTING	NORTHING	EASTING
NORTH	439,155.23	3,003,875.43	439,140.76	3,003,923.29
SOUTH	439,146.61	3,003,872.83	439,132.14	3,003,920.69



WATER CONTROL STRUCTURE 10 COORDINATES				
	INTAKE		OUTFALL	
CULVERT	NORTHING	EASTING	NORTHING	EASTING
WEST	437,801.17	2,999,600.07	437,731.17	2,999,600.07
EAST	437,801.17	2,999,610.07	437,731.17	2,999,610.07



WATER CONTROL STRUCTURE 12 COORDINATES				
	INTAKE		OUTFALL	
CULVERT	NORTHING	EASTING	NORTHING	EASTING
NORTH	437,663.29	2,998,065.63	437,661.29	2,998,185.61
SOUTH	437,654.29	2,998,065.48	437,652.29	2,998,185.46

WATER CONTROL STRUCTURE	
ID	LENGTH (FT.)
6	50
10	70
11	50
12	120

- NOTES:
- EXISTING STRUCTURE AT WATER CONTROL STRUCTURE 6 SHALL BE REMOVED AND REPLACED WITH PLASTIC PIPES.
  - ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  - BACKGROUND IMAGERY WAS TAKEN IN 2012.

LEGEND	
	WATER CONTROL STRUCTURE

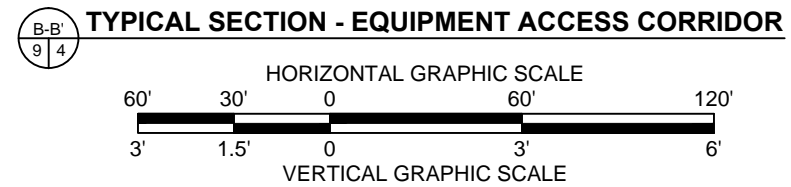
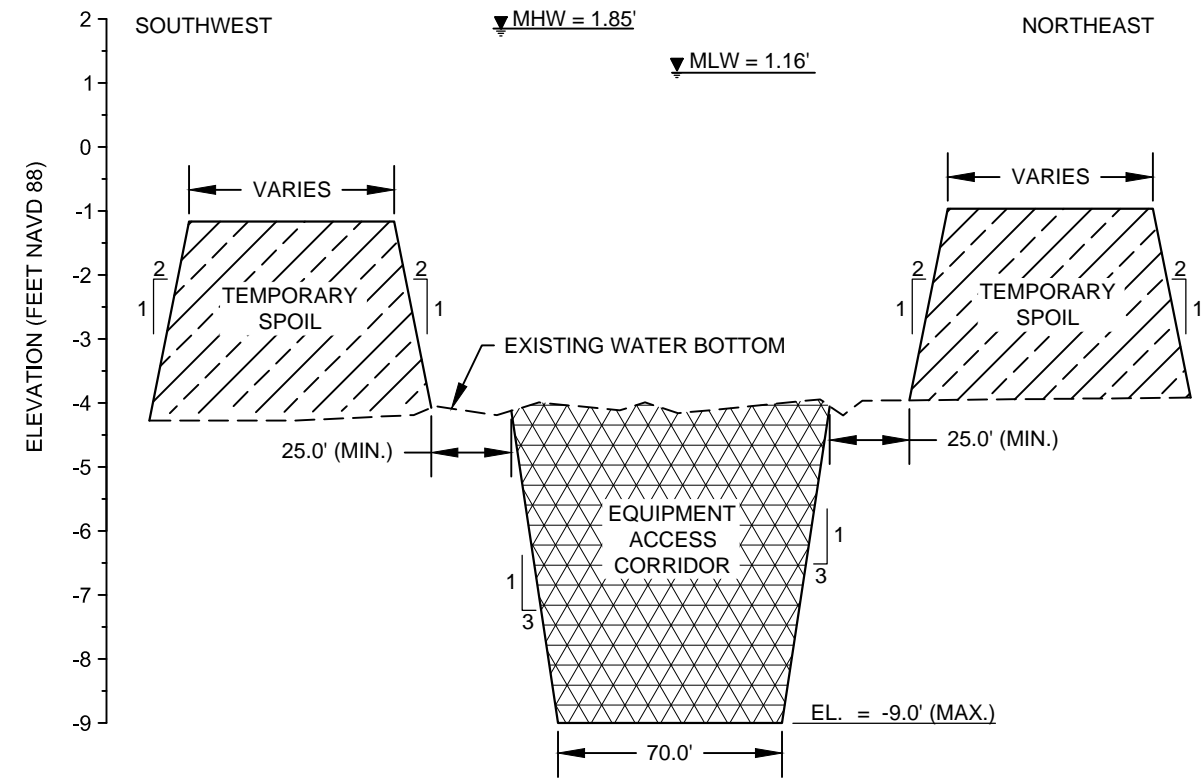
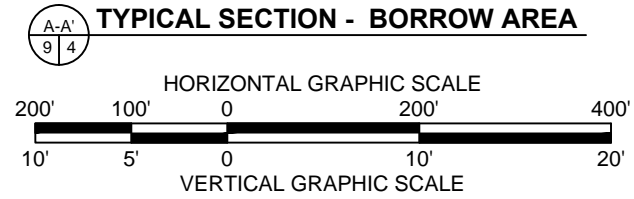
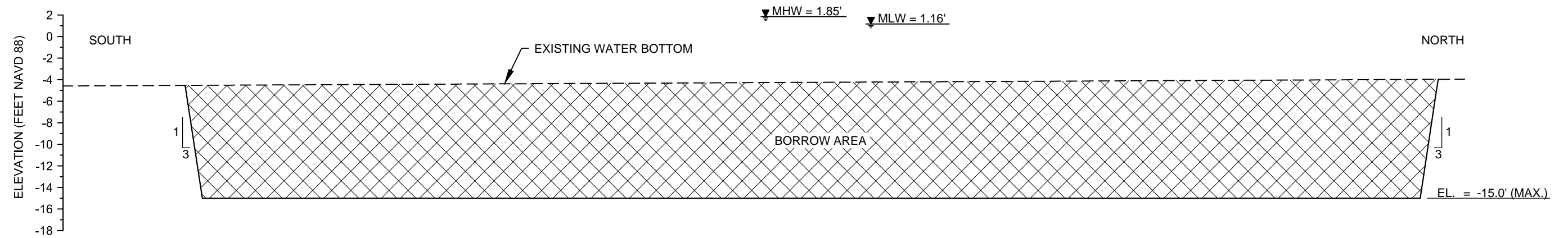


REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY: K. CANTU	
DESIGNED BY: A. TAYLOR, E.I.	

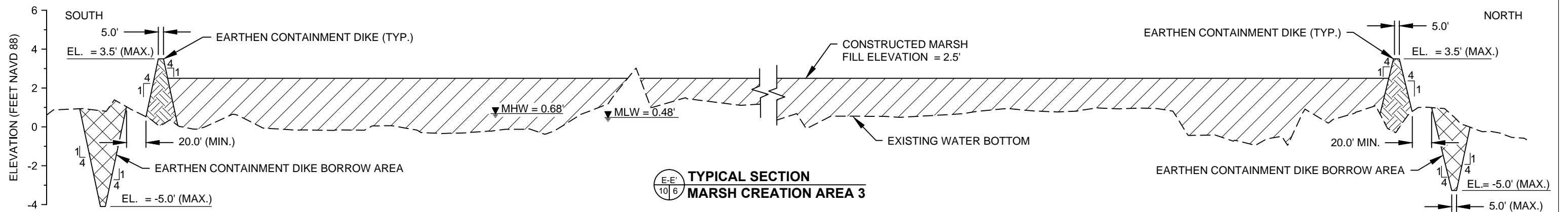
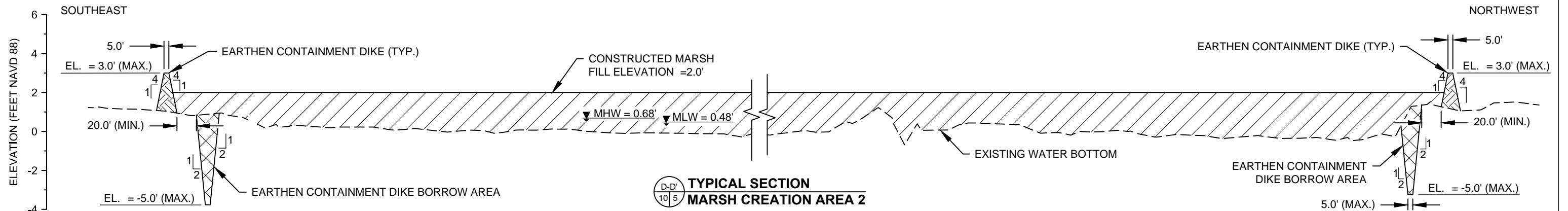
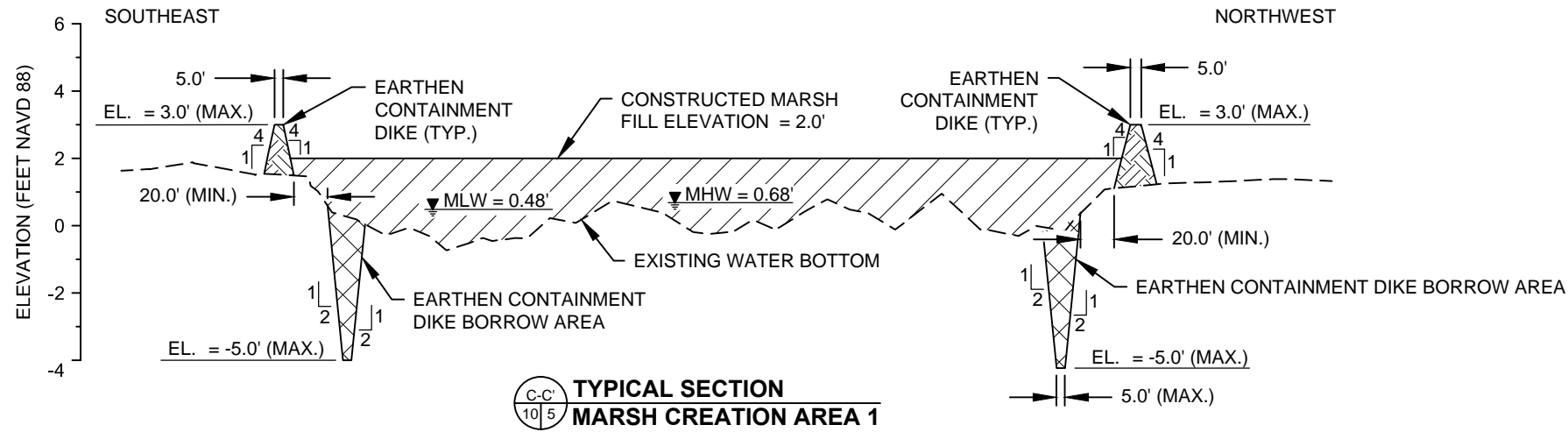
COLE'S BAYOU MARSH RESTORATION	WATER CONTROL STRUCTURE PLAN VIEWS
STATE PROJECT NUMBER: TV-63	
FEDERAL PROJECT NUMBER: TV-63	DATE: APRIL 2015
APPROVED BY: S. HAYNES, P.E.	SHEET 8 OF 14



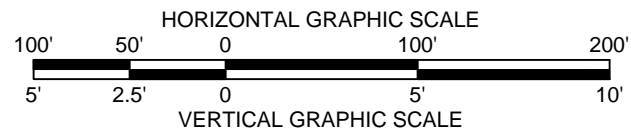


LEGEND	
	BORROW AREA
	EQUIPMENT ACCESS CORRIDOR
	TEMPORARY SPOIL
	EXISTING WATER BOTTOM

				COASTAL PROTECTION AND RESTORATION AUTHORITY  450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		COLE'S BAYOU MARSH RESTORATION		TYPICAL BORROW AREA & EQUIPMENT ACCESS SECTION
						STATE PROJECT NUMBER: TV-63		
						FEDERAL PROJECT NUMBER: TV-63		
REV.	DATE	DESCRIPTION	BY	DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.		SHEET 9 OF 14

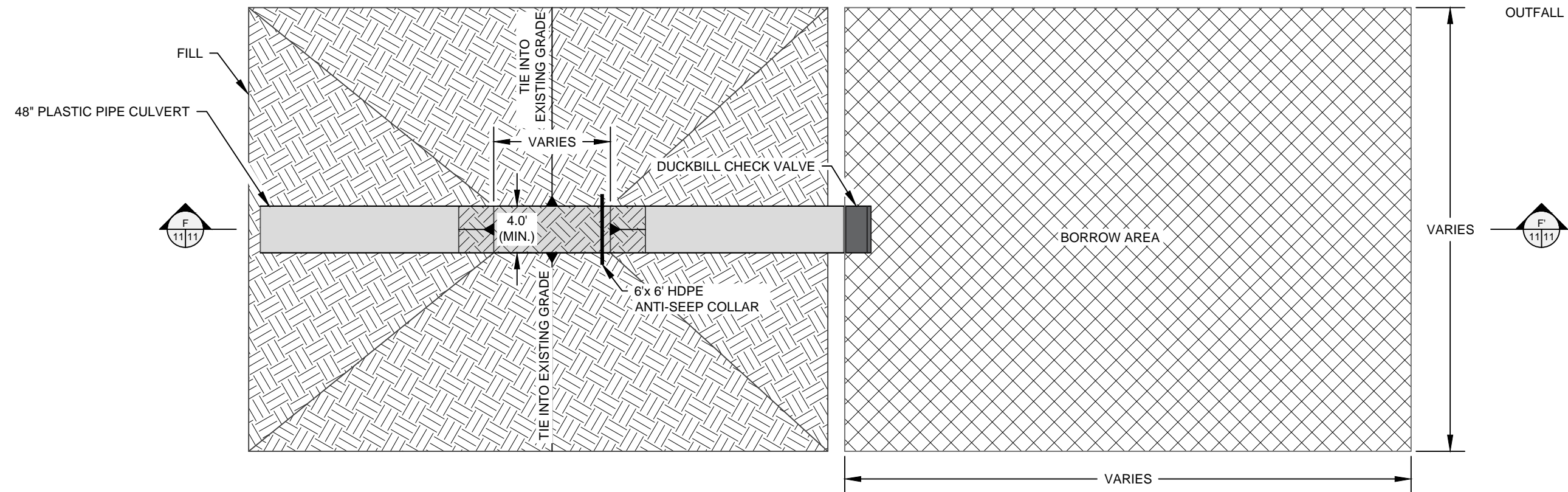


LEGEND	
	EARTHEN CONTAINMENT DIKE BORROW AREA
	EARTHEN CONTAINMENT DIKE
	MARSH FILL
	EXISTING WATER BOTTOM

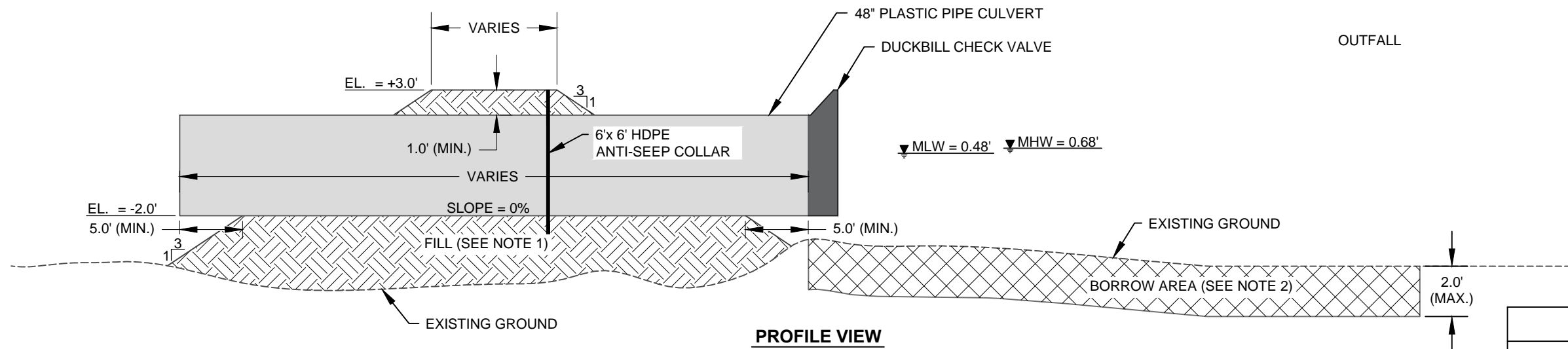


				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		COLE'S BAYOU MARSH RESTORATION		TYPICAL MARSH CREATION AREA SECTIONS	
						STATE PROJECT NUMBER: TV-63			
						FEDERAL PROJECT NUMBER: TV-63		DATE: MARCH 2015	
REV.	DATE	DESCRIPTION	BY			DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.	SHEET 10 OF 14





PLAN VIEW



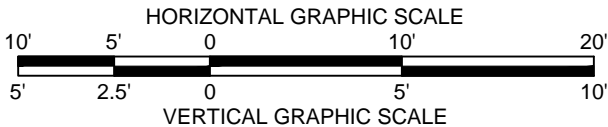
PROFILE VIEW



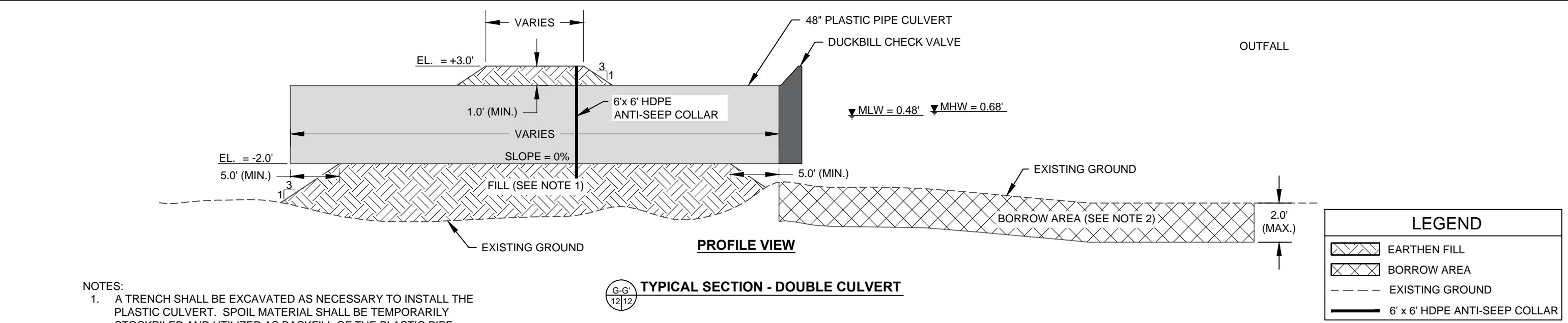
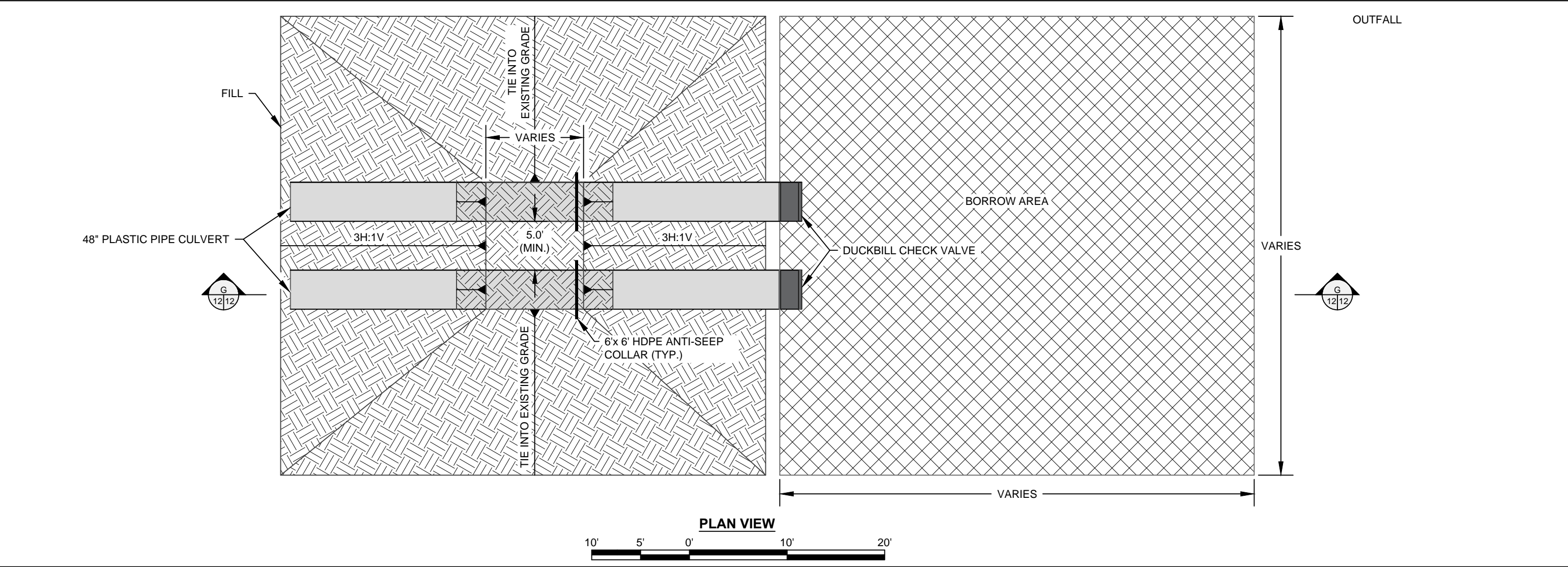
TYPICAL SECTION - SINGLE CULVERT

LEGEND	
	EARTHEN FILL
	BORROW AREA
	EXISTING GROUND
	6' x 6' HDPE ANTI-SEEP COLLAR

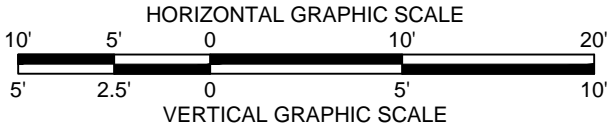
- NOTES:
1. A TRENCH SHALL BE EXCAVATED AS NECESSARY TO INSTALL THE PLASTIC CULVERT. SPOIL MATERIAL SHALL BE TEMPORARILY STOCKPILED AND UTILIZED AS BACKFILL OF THE PLASTIC PIPE.
  2. THE BORROW AREA SHALL BE UTILIZED AS NEEDED FOR BREACHES.



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		COLE'S BAYOU MARSH RESTORATION		TYPICAL PLAN & PROFILE FOR WATER CONTROL STRUCTURE WITH SINGLE CULVERT	
						STATE PROJECT NUMBER: TV-63			
						FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015	
REV.	DATE	DESCRIPTION	BY			DRAWN BY: K. CANTU		DESIGNED BY: A. TAYLOR, E.I.	



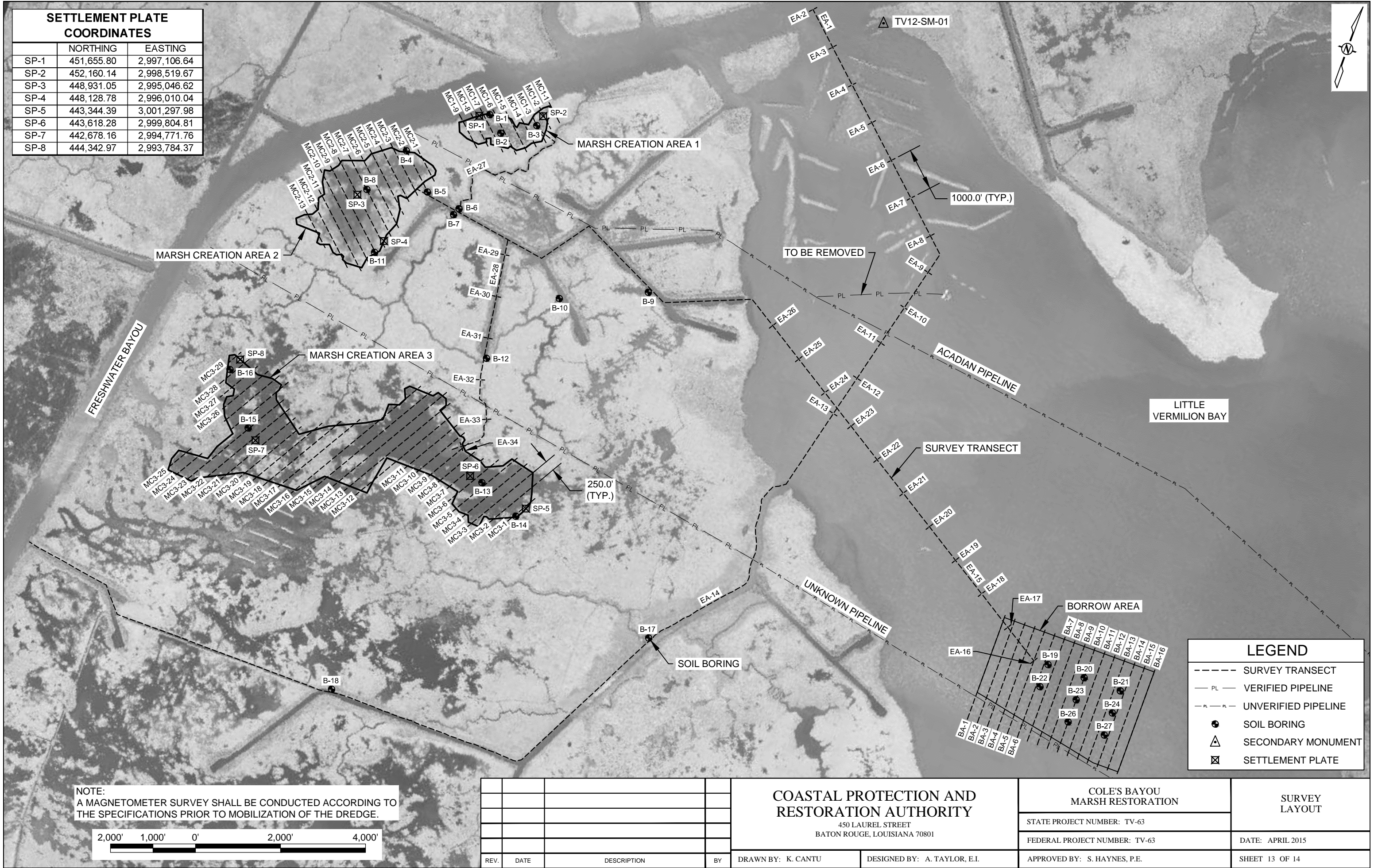
- NOTES:
1. A TRENCH SHALL BE EXCAVATED AS NECESSARY TO INSTALL THE PLASTIC CULVERT. SPOIL MATERIAL SHALL BE TEMPORARILY STOCKPILED AND UTILIZED AS BACKFILL OF THE PLASTIC PIPE.
  2. THE BORROW AREA SHALL BE UTILIZED AS NEEDED FOR BREACHES.



<div><div><div>G-G'</div><div>12 12</div></div></div> <div>TYPICAL SECTION - DOUBLE CULVERT</div>				<div><div><div>---</div><div>---</div><div>---</div><div>---</div></div><div>EXISTING GROUND</div></div> <div><div><div></div></div><div>6' x 6' HDPE ANTI-SEEP COLLAR</div></div>				
				<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>450 LAUREL STREET</div> <div>BATON ROUGE, LOUISIANA 70801</div>		<div>COLE'S BAYOU MARSH RESTORATION</div>		<div>TYPICAL PLAN &amp; PROFILE FOR WATER CONTROL STRUCTURE WITH DOUBLE CULVERT</div>
						<div>STATE PROJECT NUMBER: TV-63</div>		
						<div>FEDERAL PROJECT NUMBER: TV-63</div>		
								<div>DATE: APRIL 2015</div>
REV.	DATE	DESCRIPTION	BY			<div>DRAWN BY: K. CANTU</div>	<div>DESIGNED BY: A. TAYLOR, E.I.</div>	<div>APPROVED BY: S. HAYNES, P.E.</div>



SETTLEMENT PLATE COORDINATES		
	NORTHING	EASTING
SP-1	451,655.80	2,997,106.64
SP-2	452,160.14	2,998,519.67
SP-3	448,931.05	2,995,046.62
SP-4	448,128.78	2,996,010.04
SP-5	443,344.39	3,001,297.98
SP-6	443,618.28	2,999,804.81
SP-7	442,678.16	2,994,771.76
SP-8	444,342.97	2,993,784.37



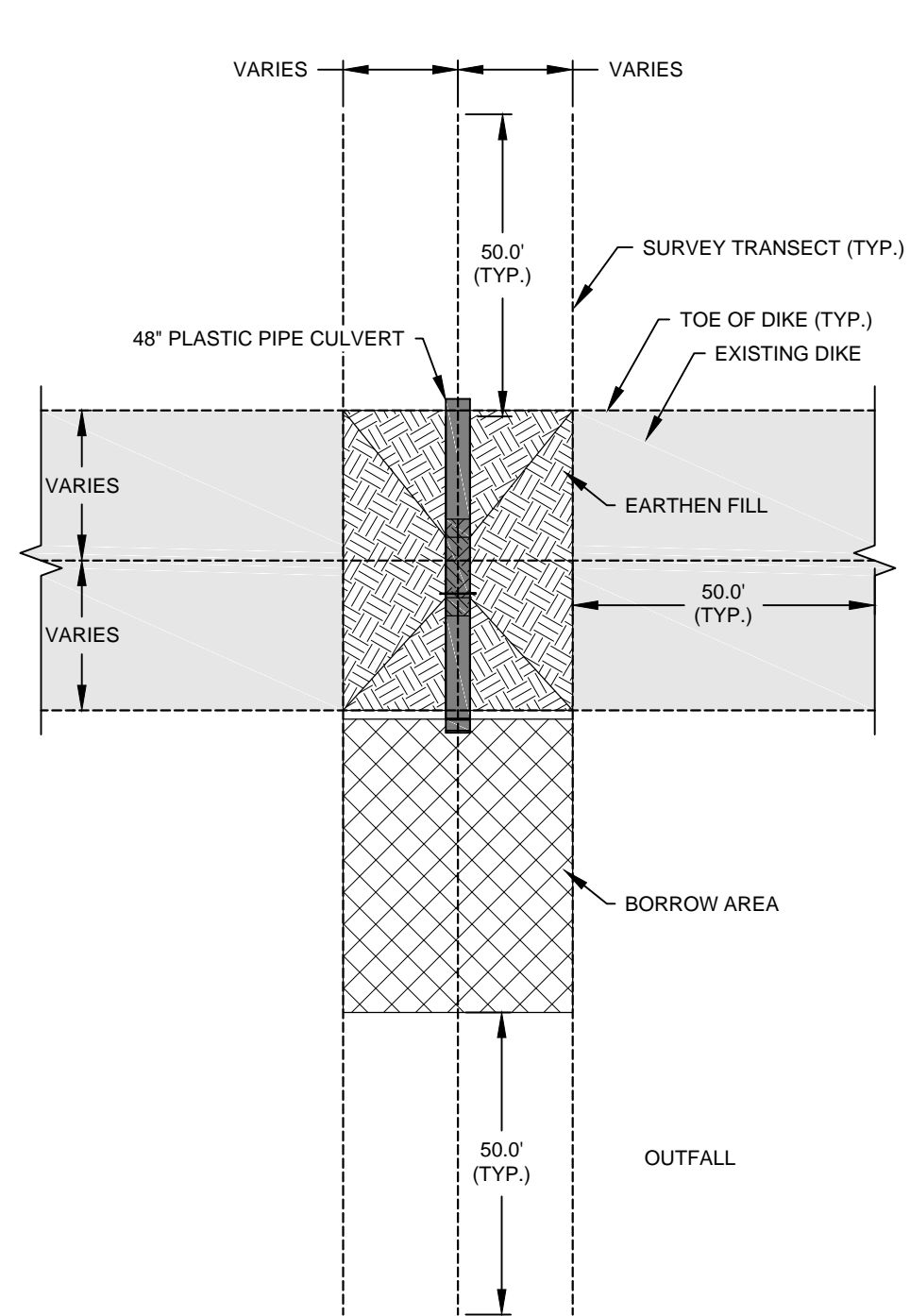
NOTE:  
A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO  
THE SPECIFICATIONS PRIOR TO MOBILIZATION OF THE DREDGE.

REV.	DATE	DESCRIPTION	BY

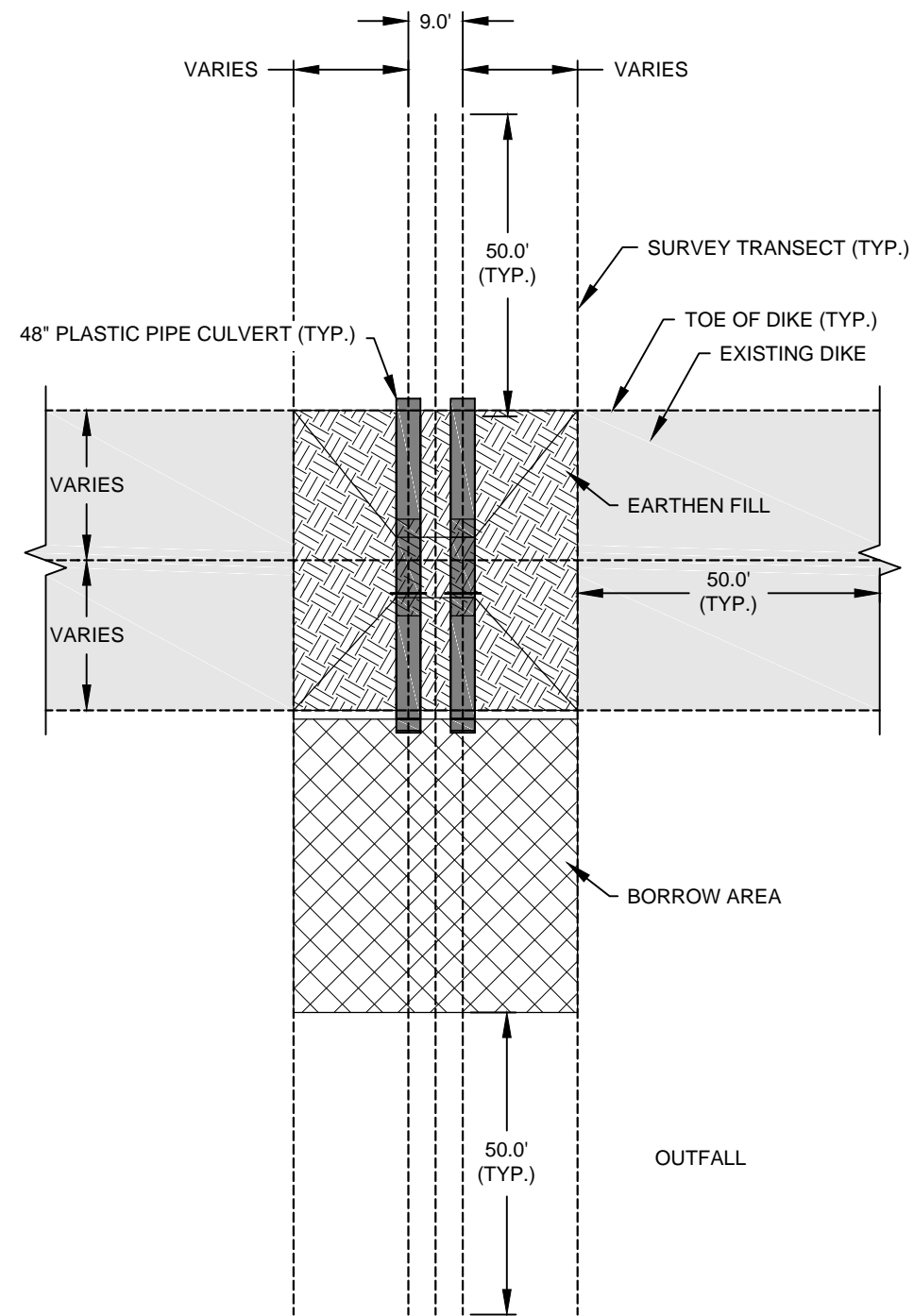
COASTAL PROTECTION AND RESTORATION AUTHORITY	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.

COLE'S BAYOU MARSH RESTORATION	SURVEY LAYOUT
STATE PROJECT NUMBER: TV-63	
FEDERAL PROJECT NUMBER: TV-63	DATE: APRIL 2015
APPROVED BY: S. HAYNES, P.E.	SHEET 13 OF 14





**PLAN VIEW**  
SINGLE CULVERT INSTALLATION



**PLAN VIEW**  
DOUBLE CULVERT INSTALLATION

LEGEND	
	EARTHEN CONTAINMENT DIKE BORROW AREA
	EARTHEN CONTAINMENT DIKE
	EXISTING DIKE
	SURVEY TRANSECT



				<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>450 LAUREL STREET</div> <div>BATON ROUGE, LOUISIANA 70801</div>	COLE'S BAYOU MARSH RESTORATION		WATER CONTROL STRUCTURE SURVEY LAYOUT	
					STATE PROJECT NUMBER: TV-63			
					FEDERAL PROJECT NUMBER: TV-63		DATE: APRIL 2015	
REV.	DATE	DESCRIPTION	BY		DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, E.I.	APPROVED BY: S. HAYNES, P.E.	SHEET 14 OF 14